

INTERNATIONAL SEARCH REPORT

International application No.

PCT/JP2004/017369

A. CLASSIFICATION OF SUBJECT MATTER

Int.Cl⁷ F16C33/78, 41/00, G06K19/00

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

Int.Cl⁷ F16C33/76-33/80, 41/00, G06K19/00

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Jitsuyo Shinan Koho 1922-1996 Toroku Jitsuyo Shinan Koho 1994-2005

Kokai Jitsuyo Shinan Koho 1971-2005 Jitsuyo Shinan Toroku Koho 1996-2005

Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
Y (1)	WO 2002/101675 A1 (THE TIMKEN CO.), 19 December, 2002 (19.12.02), & US 2002/0186134 A1 & US 6501382 B1 & EP 1402492 A & JP 2004-538428 A	1-7
Y (2)	JP 2002-506257 A (NORTHEAST EQUIPMENT, INC. doing business as DELTA MECHANICAL SEALS), 26 February, 2002 (26.02.02), Par. Nos. [0010], [0230] to [0231] & US 6173210 B1 & US 6662062 B1 & EP 1058903 A & WO 1999/045488 A1 & AU 3182399 A & CN 1295693 T & PL 342693 A & BR 9908421 A & CA 2323752 A & NZ 506542 A & AU 765174 B & ID 28516 A	1-7

☒ Further documents are listed in the continuation of Box C.☐ See patent family annex.

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Date of the actual completion of the international search
08 March, 2005 (08.03.05)Date of mailing of the international search report
29 March, 2005 (29.03.05)Name and mailing address of the ISA/
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C (Continuation). DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
Y (3)	JP 7-197938 A (SNR ROULEMENTS), 01 August, 1995 (01.08.95), Figs. 1 to 4 & US 5523681 A & EP 652438 A1 & DE 69407543 D & FR 2412048 A & ES 2110717 T & BR 9404334 A & CN 1108739 A	1-3, 5-6
Y (4)	JP 9-196946 A (NSK Ltd.), 31 July, 1997 (31.07.97), Figs. 3 to 4 (Family: none)	1-2, 4-7
A (5)	US 6107920 A (MOTOROLA, INC.), 22 August, 2000 (22.08.00), & US 6018299 A & US 6091332 A & US 6130613 A & US 6246327 B1 & JP 2002-517870 A & JP 2002-519771 A & EP 1093644 A & EP 1090379 A & EP 1110190 A & WO 1999/065002 A1 & WO 1999/067754 A1 & WO 2000/016278 A1 & AU 4422399 A & BR 9910980 A & CN 1305623 T & CA 2334156 A & AU 4573099 A & BR 9911407 A & CN 1315027 T & AU 750290 B & CA 2334832 A	1-7
P, Y (6)	JP 2004-263724 A (NTN Corp.), 24 September, 2004 (24.09.04), (Family: none)	1-7